



NewsLetter

Week of Feb. 17, 2003

Vol. 4, No. 4



Michael Anderson



David Brown



Kalpana Chawla



Laurel Clark



Rick Husband



William McCool



Ilan Ramon

Aloft in solitudes of space

by Judy Goldie

No man or mission is an island unto itself. This was especially true of STS-107, Columbia Shuttle's last mission. One way of paying tribute to the crew of STS-107 is to recognize their work. Of the more than 80 experiments slated for the mission that dealt with the study of Earth and space science, advanced technology development and astronaut health safety, one involved Alamos National Laboratory.

The Miniature Satellite Threat Reporting System (MSTRS) is a communications technology demonstration developed by the Air Force Research Laboratory in Albuquerque that provides research, development and demonstration of satellite radio-frequency threat-reporting technologies. Northrop Grumman solely designed, fabricated and integrated the prototype phase I MSTRS radio-frequency receiver hardware and associated software, with the exception of a Los Alamos National Laboratory-developed, single-electronic-snapshot circuit board and a MIJI software algorithm developed by the Air Force Research Laboratory.

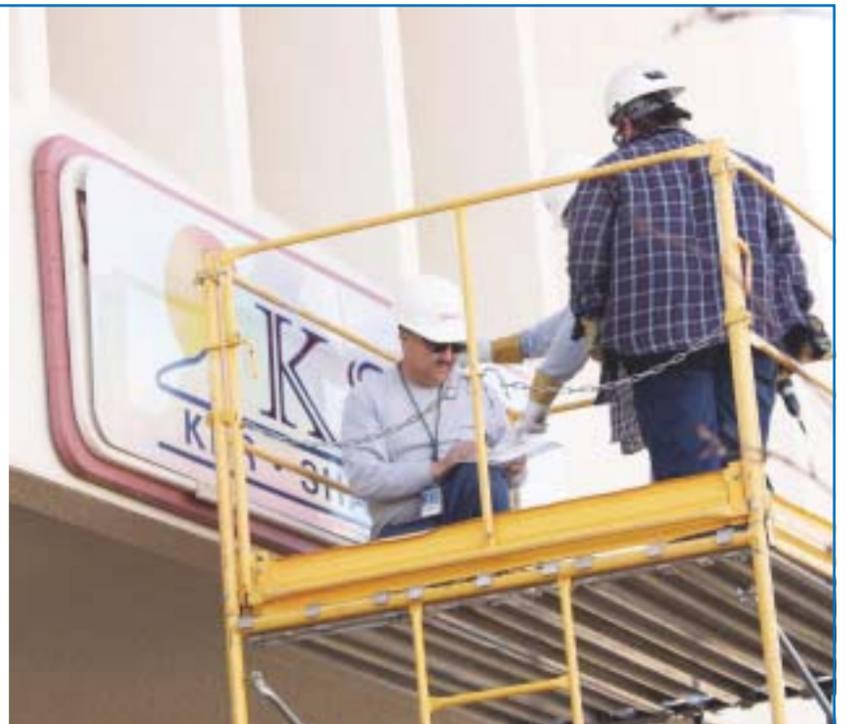
The majority of the experiments were located in Space Shuttle Columbia's middeck and the SPACEHAB Research Double Module. The MSTRS was part of the SPACEHAB's commercial payloads on the mission. To perform the research, STS-107's crew was divided into two teams to allow around-the-clock operations during the 16-day flight. The Red Team consisted of Commander Rick Husband, and Mission Specialist Kalpana Chawla and Laurel Clark and Payload Specialist Ilan Ramon. Pilot William McCool, Mission Specialist David Brown and Payload Commander Michael Anderson were on the Blue Team.

To help resolve the questions surrounding Columbia's ill-fated reentry, the Lab has offered its expertise to NASA. One example is GENIE, or GENetic Imagery Exploitation. The idea is to see if GENIE software can significantly speed up the process of locating debris for the accident investigation, said Steven Brumby of Space and Remote Sensing Sciences (NIS-2). "This is similar to what we were asked to do for NYC following Sept. 11, 2000, and is the type of problem GENIE was designed for. But the problem is very hard so we cannot promise anything, though we think GENIE has a good chance of helping," Brumby said.



New site-support-services subcontractor begins operations at Los Alamos

KSL employees install the new KSL sign at Technical Area-3 recently. KSL is the Laboratory's new site-support-services subcontractor. The company, a joint venture of Kellogg, Brown and Root Inc.; Shaw Infrastructure Inc.; and Los Alamos Technical Associates Inc., recently signed a five-year contract (with options for an additional five years) to partner with the Laboratory in bringing world-class site-support services to the Laboratory. The contract, valued at about \$130 million per year, is the largest contract at the Laboratory. In addition to partnering with the Lab to provide world-class facilities maintenance, KSL will provide valuable assistance to the Lab to help improve business practices. KSL is further dedicated to supporting the small-business community in Northern New Mexico and becoming a valued corporate citizen. KSL replaces Johnson Controls Northern New Mexico, which held the Los Alamos support services subcontract since 1997. Photo courtesy of KSL



Inside this issue ...



Laboratory begins wall-to-wall inventory Property Management

(BUS-6) has begun a wall-to-wall inventory of controlled personal property. The physical inventory is expected to take about four months to complete. Page 3

Ambassadors for the Laboratory

Regardless of Laboratory budgets and hiring levels, recruiting is necessary to maintain relationships with various campuses, professors and administrative staff, because these relationships create the pathway for the Lab's future work force. Page 4

New Benefits Service Center aims to improve response time

Benefits and Employment Services (HR-B)

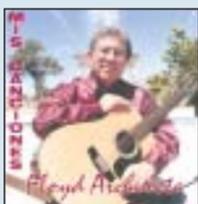
recently established a new Benefits Service Center in the Otowi Building that replaces the former Express Desk. Page 5



2002 Postdoc Distinguished Performance Award winners

The Lab has announced the winners of the second-annual Postdoctoral Distinguished Performance Award. Page 6

Music from the heart



Retired Laboratory employee Floyd Archuleta plays music from his heart. Recently, he fulfilled his life-long dream of recording his own CD. Page 8

Los Alamos National Laboratory NewsLetter

The Los Alamos NewsLetter, the Laboratory bi-weekly publication for employees and retirees, is published by the Public Affairs Office in the Communications and External Relations (CER) Division. The staff is located in the IT Corp. Building at 135 B Central Park Square and can be reached by e-mail at newsbulletin@lanl.gov, by fax at 5-5552, by regular Lab mail at Mail Stop C177 or by calling the individual telephone numbers listed below.

Editor:

Jacqueline Paris-Chitanvis, 5-7779

Associate editor:

Judy Goldie, 5-0297

Managing editor:

Denise Bjarke, 7-3565

Graphic designer:

Edwin Vigil, 5-9205

Contributing photographers:

LeRoy N. Sanchez, 5-5009

Contributing writers:

Jim Danneskiold, 6-1640

Michael Carlson, 5-9178

Judy Goldie, 5-0297

Todd Hanson, 5-2085

Kathryn Ostic, 5-8040

Steve Sandoval, 5-9206

Lecole Trujillo, 7-7000

Mary Anne With (STB-UC), 5-5306

Los Alamos National Laboratory is operated by the University of California for the National Nuclear Security Administration (NNSA) of the U.S. Department of Energy and works in partnership with NNSA's Sandia and Lawrence Livermore national laboratories to support NNSA in its mission.

Los Alamos enhances global security by ensuring safety and confidence in the U.S. nuclear stockpile, developing technologies to reduce threats from weapons of mass destruction and improving the environmental and nuclear materials legacy of the Cold War. Los Alamos' capabilities assist the nation in addressing energy, environment, infrastructure and biological security problems.



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FROM THE TOP

Nanos urges employees to report problems now

On Jan. 28, every Laboratory employee received a message from Patrick Reed, the University of California auditor, about an additional hotline that is now available to report known or suspected improper acts at the Laboratory. That UC AlertLine Ethics and Compliance Hotline number is 1-800-403-4744.

I want to once again reinforce my personal message: I hope each and every Laboratory employee will feel safe in making such reports. Everyone must be forthright in identifying problems, reporting them and, if possible, getting the needed help to fix them. Managers who receive those reports should use the information to fix the problem, not to shoot the messenger.

It's doubly important that we surface — and fix — any problems now. We could spend the next 80 days making excellent progress on our business processes only to have that hard work totally negated by a delayed report of yet another problem. If you know of a problem, no matter how large or small, please take the steps today to ensure it's surfaced and then dealt with. Please don't delay making that important report.

In the long run, your vigilance will make the Laboratory a stronger, better place for all of us. The following are a variety of additional channels through which you can report waste, fraud, abuse, theft or other improper activity:

- your Laboratory line management
- LANL Ombuds Hotline — 7-9370 or ombuds@lanl.gov
- Office of Audits and Assessments — 5-6159
- Department of Energy Waste, Fraud and Abuse Hotline — 1-800-541-1625
- DOE Office of Inspector General Hotline — 1-202-586-4073
- LANL Human Resources Division — 7-1887
- LANL's HR Complaint Resolution Services — 5-6311
- LANL's HR Staff Relations (including violence in the workplace) — 7-8730
- LANL Office of Equal Opportunity — 7-8695
- UC Waste, Fraud and Abuse Hotline (for misuse of California resources) — 1-800-952-5665
- DOE Albuquerque Employee Concerns Program — 1-800-688-5713



Interim Laboratory Director Pete Nanos

Legislative memorial lauds Los Alamos, Sandia national labs

A memorial introduced Wednesday in the New Mexico Legislature recognized the importance of scientific research and development programs at Los Alamos and Sandia national laboratories. "Science Benefiting New Mexico and the Nation" was the theme of Lab Day at the Legislature. The memorial noted the contributions of Los Alamos and Sandia to the nation's security post-Sept. 11, 2001. The memorial also described the labs as being among the "finest multi-program scientific research laboratories in the world."

The memorial was sponsored in the House by Rep. Jeannette Wallace, R-Los Alamos, Sandoval, back turned; talking with Rich Marquez, right, associate director for administration; and Leonard Martinez, a Sandia National Laboratories vice president. Rep. Nick Salazar, D-Mora, Rio Arriba, San Miguel, Santa Fe and Taos; Speaker of the House Ben Lujan, D-Santa Fe; and Rep. Debbie Rodella, D-Rio Arriba, Sandoval and Taos were co-sponsors of the memorial in the House. Sen. Roman Maes, D-Santa Fe, sponsored the memorial in the Senate. Sen. Manny Aragon, D-Bernalillo, Valencia, and Sen. Richard Martinez, D-Rio Arriba, Los Alamos and Sandoval, also expressed support for the two national labs.

Photo by LeRoy N. Sanchez



During inclement weather, dial UPDATE at 7-6622 or 1-877-723-4101 (toll free) to find out about delays or closures at the Laboratory.

Laboratory begins wall-to-wall inventory

by Steve Sandoval

Property Management (BUS-6) has begun a wall-to-wall inventory of controlled personal property. The physical inventory is expected to take about four months to complete, and the Lab will report its findings to the University of California and the Department of Energy/National Nuclear Security Administration this fall.

Interim Laboratory Director Pete Nanos said in a Jan. 6 all-employee meeting that the Lab would soon begin inventorying all controlled personal property. Property administrators will be the primary points of contacts for Laboratory organizations.

"I cannot emphasize strongly enough the importance of completing this project successfully and credibly," said Richard Marquez, associate director for administration.

As part of the wall-to-wall inventory, property administrators will go to all accessible labs, office space and storage areas, closets, desks and bookcases as well as outside areas to look for and scan barcoded property subject to inventory. An outside area could include storage buildings containing property in storage for future use.

BUS-6 has established a schedule that calls for one-quarter of the wall-to-wall inventory to be completed by March 31 and a 50-percent-completion rate by April 30, said Allen Wallace of BUS-6. In addition, BUS-6 will give twice-a-month update reports to Laboratory senior managers on the progress of the wall-to-wall inventory.

BUS-6 has created a Web page with more information about the wall-to-wall inventory. It can be found at the Wall-to Wall Inventory page online at <http://businternal.lanl.gov/bus6/FY03W2W/W2W.htm>. The Web page includes a list of frequently asked questions related to the wall-to-wall inventory, as well as contact information.

Wallace said there are several important reminders all Lab workers should keep in mind as the wall-to-wall inventory begins:

- Safety comes first for everyone. Property administrators and employees should adhere to all safety practices throughout the inventory period.



- Property administrators will be in touch with Lab workers to arrange scheduling, especially for restricted or hard-to-access areas.

- Property administrators will be tagging inventoried items with a fluorescent-yellow sticky dot to show that the property has been touched.

- Lab personnel who have barcode-numbered property at home for official use or when on travel will be required to bring it in to their property administrators on a mutually acceptable day to have it scanned. Exceptions may be granted in special circumstances with proper approval from the project leader.

For Laboratory property on loan or furnished under contract to an external organization, an affidavit will be required affirming that the external organization is in possession of the Laboratory property.

Wallace noted that University of California and Department of Energy auditors will conduct an independent validation, most likely a physical inspection of a random sample, to confirm the integrity of the inventory.

"Lab workers should be particularly diligent to keep track of their property, because it could be randomly selected next fall for validation," said Wallace. "It is crucial that the validation team locate all property."

"This is an institutional effort involving every Laboratory worker. If we all support this wall-to-wall inventory and cooperate with property administrators and inventory personnel, we feel that we will be successful," said John Tapia of BUS-6 and the project leader for the wall-to-wall inventory.

Tapia added that group leaders should be actively involved in the wall-to-wall inventory. "In order for this effort to be successful, the group leaders need to be actively engaged," he said.

The Laboratory last conducted a wall-to-wall inventory of all bar-coded property in 1998; that inventory met the UC and DOE standards, Tapia said.

Lab workers who have questions about the wall-to-wall inventory can contact their property administrator, or the BUS-6 Property help line at 5-3230 or write to lanlproperty@lanl.gov by electronic mail.

For more information, see the Jan. 14 master management memo from Marquez, which is available online.



NEWS FROM DOE

Brooks to be nominated NNSA under secretary

President George W. Bush intends to nominate Linton F. Brooks of Virginia to be under secretary for nuclear security and administrator for nuclear security at the National Nuclear Security Administration, with the Department of Energy.

Brooks currently is the acting under secretary for nuclear security and deputy administrator for Defense Nuclear Nonproliferation at DOE. Before his work with DOE, Brooks served as vice president and director for policy, strategy and forces division of the Center for Naval Analyses, a federally funded research and development center in Virginia. During the George H.W. Bush administration, he served as assistant director for strategic and nuclear affairs at the U.S. Arms Control and Disarmament Agency and as head of the U.S. delegation on nuclear and space talks and chief strategic arms reductions (START) negotiator. In this later capacity, he was responsible for final preparation of the START Treaty signed by presidents Bush and Gorbachev in Moscow on July 31, 1991.

Brooks served in the U.S. Navy for 30 years and retired as a captain. He holds a bachelor's degree from Duke University and earned a master's degree from the University of Maryland. He also is a distinguished graduate of the U.S. Navy War College.



Russian visitors learn about Lab's fire mitigation efforts

Steve Mee of the Cerro Grande Rehabilitation Project (FWO-CGRP) Office, wearing blue jacket, explains to a group of visitors from Russia how Air Curtain Destructors are used. A delegation of fire mitigation officials were at the Laboratory recently to tour

Laboratory facilities and hear reports on fire mitigation efforts under way at the Laboratory. Standing next to Mee is interpreter Carolyn Smith. The Air Curtain Destructors are being used at Technical Area 16 to dispose of wood and slash generated from Laboratory fire mitigation efforts. The Air Curtain Destructors work similar to a home pellet stove by blowing a high-pressure current of air around the fuel as it burns — making combustion much more efficient than conventional burning and producing almost no smoke in the process as shown in inset photo. The wood burns at temperatures as high as 2,500 degrees Fahrenheit. The machines can burn up to 20 tons of wood an hour and produce about one tenth of the smoke and particulate material than is normally produced by traditional open burning. Tito Garcia of Air Curtain Destructors of New Mexico Inc. has a contract with the Laboratory to burn wood and slash throughout Laboratory areas. Garcia also is the exclusive licensed distributor of the burners for the Southwestern United States. Last year, a delegation from the Lab and the Los Alamos County Fire Department went to Russia to discuss fire mitigation and suppression efforts. The Russian visitors at Los Alamos were returning that visit. Photos by LeRoy N. Sanchez



Don't let this happen to you ...

Kansas City Airport — Recently a National Nuclear Security Administration employee completed a site visit and found himself with spare time on his hands. As many of us do, while waiting for a flight at the airport, the traveler decided to clean out his briefcase to lighten the load. The papers and documents he selected to discard were not classified nor labeled sensitive or otherwise restricted, but they were related to a recent review conducted onsite and included site-specific information that could be deemed valuable by others. Thinking there was no problem in doing so, the individual deposited several of the briefings and related documents in a nearby trash can inside the airport terminal. Normally, the documents would have been simply disposed of when the trash was emptied. However, in this case, an unusual chain of unrelated events caused the document disposal to receive high-level interest.

Unbeknown to the NNSA employee, sometime after he discarded the documents and boarded his flight, an individual acting suspiciously near the trash container also was seen disposing items into the same trash container earlier used by the NNSA employee. Because of heightened security concerns at the airport, the suspicious individual was detained and questioned by local security personnel. In addition, law enforcement officials conducted a search of the immediate area, which caused the discarded documents to resurface.

In the same container, other technical items were found, which had been discarded by an individual attending a trade show held locally. Because of the interest created by security personnel's discovery of the NNSA documents, the Transportation Security Agency and the FBI were contacted. The local FBI office contacted the local site office, which in turn contacted NNSA headquarters. Upon review by both site office and NNSA headquarters personnel, it was determined that no classified information was involved. However, it was the consensus that a good operational security procedure would be not to dispose of any NNSA information in trash containers in public places.

This incident serves as a reminder to us all of the significance of the work we do. While we routinely handle documents that are unclassified and not even categorized as sensitive, others may attach significance importance to them, solely because they relate to the weapons complex and are clearly marked with the NNSA logo.

So, if you find yourself with free time on your hands in an airport, train station, your office or even in your hotel room, please use good operational security procedure and don't dispose of any government documents in public receptacles. If on travel, dispose unwanted documents appropriately onsite. Remember, here at the Lab when dealing with sensitive unclassified information, dispose of it properly.

For more information about the OPSEC program, contact the Internal Security Office at 5-6090.

Recruiters Ambassadors for the Laboratory

by Judy Goldie

Regardless of Laboratory budgets and hiring levels, recruiting is necessary to maintain relationships with various campuses, professors and administrative staff, because these relationships create the pathway for the Lab's future work force, said Beth McCormick, leader of the Lab's Recruiting Team (HR-Staffing).

The Lab last fall had one of the most aggressive recruiting efforts it has ever known, added McCormick. Part of this effort comprises 105 technical recruiters — volunteers from throughout the Laboratory — who visit college campuses and attend professional meetings with recruiting as their objective. These employees become not only the face of the Laboratory on campuses, but the institution's ambassadors, noted McCormick.

"I have never seen such commitment by technical recruiters in my entire career of recruiting," McCormick emphasized. The personal relationships these recruiters develop with college and university administrators, professors and advisors "make it all happen." It is through these relationships that truly outstanding candidates can be recruited for Los Alamos, she said.

A 1964 article in the Los Alamos Scientific Laboratory's *Atom* tells the story of a recruiter who had traveled more than half a million miles in 10 years. Today's technical recruiters, in 2002 alone, gathered approximately 4,000 résumés, shook hundreds of hands and made at least as many personal outreach efforts. Together, these 105 technical recruiters accounted for 40 visits to 26 campuses.

Members of the Recruiting Team facilitate and support the technical recruiters' efforts and provide the institutional guidance — training, tools and marketing materials.

Though the face-to-face interactions provided by technical recruiters are pivotal to the Lab's long-term success, they are not the only means HR-S Recruiting uses to revitalize the Laboratory's work force. Used too are advertisements, brochures and special hiring events, such as the "Just In Time" interview events in which previously screened candidates (those identified by the Lab's technical recruiters) — the cream of crop so to speak — have the opportunity to meet and connect with peers and interview with several organizations.

The result of all this effort include successes in the "early career hire" program as well as in the hiring of quality professionals in other programs throughout the Lab.

The Engineering Sciences and Applications (ESA) Division Leader Earle Marie Hanson said, "We had about a 90 percent success rate (on candidates we interviewed at these [Just In Time] events) of offers and acceptances. We would have never reached our hiring goal of approximately 135 new staff in FY 02 if it wasn't for these events." This is seconded by Dean Peterson, the Superconductivity Technology Center (STC) leader, who said that "the JIT recruiting events have been very useful in identifying outstanding postdoctorals for the Materials Science and Technology (MST) Division. It is a great opportunity to hear the applicant present their dissertation research as well as to discuss possible LANL projects with them."

For more information on the Laboratory's recruiting efforts, including a calendar of upcoming events at which the Laboratory will recruit, see recruiting@lanl.gov online, call HR-Staffing Recruiting Team at 7-8849 or e-mail the team at recruiting@lanl.gov.

Upcoming recruiting events

Date	Event	Type
Feb. 7	University of Michigan, Ann Arbor	career fair
Feb. 7	University of California, Berkeley	information session
Feb. 12	National Society of Black Physicists	conference/career fair
Feb. 13	University of New Mexico	career fair
Feb. 27	Harvey Mudd	LANL Day
March 19	National Society of Black Engineers	conference/career fair
March 21	Los Alamos Community Job Fair	career fair
March 26	New Mexico Highlands	career fair
April 13	National Association of Black Chemists and Chemical Engineers	conference/career fair

Nominations sought for Postdoctoral Publication Prize in Experimental Sciences

Nominations are being sought for the Postdoctoral Publication Prize in Experimental Sciences. This biennial prize is sponsored by Damon Giovanielli and Los Alamos National Laboratory and is awarded for the best article in experimental sciences published or accepted for publication after Jan. 1, 2000. Deadline for submitting a nomination is noon March 6.

For this award, "experimental sciences" is broadly interpreted to refer to any experimental work in the physical, chemical or biological sciences. The article should describe work performed primarily during the tenure of the postdoctoral appointment at the Laboratory. Former postdoctoral appointees also are eligible for the prize regardless of present position. Nominees can be from any Laboratory division.

Any Laboratory staff member, including the postdoc being nominated, may submit a letter of nomination for this prize. The letter of nomination should highlight the significance and impact of the work within the chosen field. If the article has co-authors, the letter also should explain what portion of the work, including the writing of the article, was performed by the candidate while a postdoc at the Laboratory. The Director of the Science and Technology Base (STB) Program Office Allen Hartford appoints the judges for the competition, with the advice from the Laboratory scientific community. In evaluating the articles, clarity of the writing is considered along with the significance and impact of the work.

continued on Page 7

New Benefits Service Center aims to improve response time

by Kathryn Ostic

Benefits and Employment Services (HR-B) recently established a new Benefits Service Center in the Otowi Building that replaces the former Express Desk. The Express Desk provided walk-in or phone service to employees seeking benefits information. "The goal of the new center is to provide better service and to have at least eight out of 10 customers speak to a benefits specialist when calling. Leaving a message and waiting for a call back isn't convenient for most people," said Christopher Binns, team leader in HR-B.

Binns conducted an analysis of the efficiency of the Express Desk and found that "The biggest inadequacy of the old system was that all traffic was funneled through two generalists at the Express Desk. This approach wasted employees' (and the Lab's) time, because they



The Laboratory's Benefits and Employment Services (HR-B) in the Otowi Building has a new Benefits Service Center, which replaces the former Express Desk. Standing from left to right are HR-B representatives Carrie Morrison, Lois McIntosh, Marti Browne, Pam Koby, Ellen Fox and Christina Rivera. The Service Center is newly reconfigured, allowing for an organized routing system and removal of the Express Desk. Photo by LeRoy N. Sanchez

had to drive to our office, battle with parking and wait in line. The old process was not an efficient, cost effective or friendly way to conduct business," he explained.

The new Service Center now has traffic routed directly to the six representatives instead of two Express Desk support staff. The staff plans to better address customer concerns by providing faster responses and more information using new support center software packages. Changes already have been made to the existing telephone system by removing the cumbersome phone tree and adding more access to generalist help. Since Dec. 1, 2002, more than 72 percent of the calls have been answered by an HR-B representative and did not have to be routed to voice mail.

The Service Center also has newly reconfigured office space, which allows easier access to the center's staff. "Most customers now have a vastly different experience than before. Last year, customers frequently had long wait times and slow turn around on messages. Getting immediate attention sometimes meant coming all the way over to our office. Now the fastest way to get help is to pick up the phone. The service has dramatically increased, and we continue to work on improvements," said Binns.

In addition to the six representatives, the new center has a production-team supervisor who oversees the production team, monitors and controls the routing software and handles process improvements and reporting. There also is a health-care facilitator who handles complex claim issues and three production-team members who support the center staff.

A revamped Web site, which features a user-friendly, question-driven pull down menu, is available at <http://www.lanl.gov/worklife/benefits/index.shtml> online. The Web site provides information with links to health and insurance, awards/perks, time off, life changes, retirement/savings, flexible spending accounts and fast answers to specific questions.

Representatives at the Benefits Service Center are available at 7-1806 or by writing to benefits@lanl.gov by e-mail. For more information on the new Benefits Service Center, contact Binns at 7-8622.

Exit survey elicits feedback about students' experiences

by Michael Carlson

Students who left the Laboratory last fall had some things to say about their experiences through an exit survey conducted between Oct. 1, 2001, and Sept. 30, 2002.

"The Lab will use the results of the latest questionnaire to improve student programs during the current fiscal year," Carole Ruten of the Education Program Office (STB/EPO) said. Improvements to the survey and an emphasis to increase the number of surveys sent to students also will be made, she said.

More than 300 high-school co-op, undergraduate, graduate and student visitors answered questions about effectiveness of work plans, the influence their time at the Lab had on future career goals and safety practices at the Lab.

Students also continued to address the issues of limited housing, delays in receiving training and lack of quality time with mentors.

"It is hard to meet with your mentor when you do not have a clearance and they are on the other side of the fence," one student said. "If you [the Lab] don't get more housing, you'll never get the quality and number of students you're looking for," another student said.

Most students who responded to the survey seemed satisfied with safety requirements in place at the Lab. And other students said they would like to return to the Lab to work this summer.

"My experience at the Laboratory has been positive, and I think highly of the Lab

and the work that is being done here, and I am looking forward to next summer," a student said. "This internship has proved to be a great experience, and it has helped me develop my proficiency in engineering," said another student. "However, I would like to have had a longer appointment."



New eligibility requirements for students begin in 2004

by Michael Carlson

Students at the Laboratory will have until 2004 to comply with new eligibility requirements set forth by the Education Program Office (STB/EPO), said Student/Mentor Liaison Carole Ruten.

The policy change is necessary to better monitor student academic progress, programmatic eligibility, degree completion and salary accountability, said Ruten. The new requirements and implementation process will be rolled out over two years.

"Beginning the fall semester or quarter 2003, undergraduate students working during the academic year may not exceed 35 work-time hours," Ruten said.

Exceptions to the work-time rule will be addressed on an individual basis by the undergraduate and graduate program coordinator.

Ruten said the EPO staff is working to create a better monitoring process to support students in meeting both their internship and academic goals. "We want to bring in students with a lot of potential, and we hope to see vacated positions filled by students who came to the Lab as interns," said Ruten.

Students, mentors and division student liaisons currently are being notified about the new process. Students can find out more about the process at the Student Association Web page at <http://sa.lanl.gov> online or by contacting Mindy Mendez of STB-EPO at 5-9466 or Ruten at 5-5194.



Stults is new Los Alamos Office of Science program leader

B. Raymond Stults has been named leader for the Office of Science Programs at Los Alamos.

Since August 2000, Stults has been associate lab director for environmental and energy sciences at Idaho National Engineering and Environmental



B. Raymond Stults

Laboratory. Before that, he served as technical resource manager in the Environmental Technology Division at Pacific Northwest National Laboratory. While at Pacific Northwest National Laboratory, Stults played a key role in developing and constructing the Environmental Molecular Sciences Laboratory, which opened in 1997.

As the Office of Science manager, Stults will be responsible for leadership, communication and coordination of the offices operations at Los Alamos. He will work closely with the Associate Directorate for Strategic Research, the Los Alamos Office of Science Board of Directors and Laboratory program managers to build on current Office of Science successes. His primary duties will be to maintain the Laboratory's connection with the Department of Energy's Office of Science, to formalize and document the operations of the Office of Science operations at the Laboratory, to help identify program development opportunities and needs and coordinate scientific- and technical-program development efforts.

Stults has a doctorate in inorganic chemistry from the University of Nebraska and did his postdoctoral research at Texas A&M University. His appointment concluded a nationwide search that carefully considered the numerous critical requirements of the Los Alamos Office of Science program director position.



TO YOUR HEALTH

American Heart Month

February is American Heart Month. Following are some tips from the American Institute of Preventive Medicine:

State of the heart

This year alone, 900,000 U.S. citizens will die of heart disease and strokes. That is 250,000 more Americans than those who died in WWI, WWII, the Korean War and the Vietnam War combined. Follow your doctor's advice to reduce risk factors.

Women and heart attacks

Although more men experience heart attacks than women, women's attacks are usually more severe and twice as likely to be fatal. In addition, women don't do as well after bypass surgery. As an outgrowth, women, no matter what their age, should make extra special efforts to reduce the major heart-disease risk factors — smoking, obesity, high cholesterol, hypertension, stress and inactivity.

Huynh and Trudolyubov win the 2002 Postdoc Distinguished Performance Award

My Hang Huynh of High Explosives Science (DX-2) and **Sergey Trudolyubov** of Space and Remote Sensing Sciences (NIS-2) are the winners of the second-annual Postdoctoral Distinguished Performance Award.

The PDPA recognizes outstanding and unique contributions by Laboratory postdocs that result in a positive and significant impact on the Laboratory's programmatic or organizational efforts or status in the scientific community.

Huynh, nominated by Dave Morris and Tom Baker, both of Actinide, Catalysis and Separations Chemistry (C-SIC), currently is a Los Alamos technical staff member in DX-2; however, she was a postdoctoral fellow in C-SIC until July 2002. Her nomination is based on outstanding performance and contribution to the Laboratory's scientific efforts and programmatic needs in energetic materials. The cornerstone of the nomination is Huynh's publication record. A significant amount of her research has been published in three highly recognized journals in her field of synthetic inorganic chemistry: the *Journal of American Chemical Society*, *Inorganic Chemistry* and *Angewandte Chemie*. Her research efforts, which focused on the chemical reactivity of transition metal — nitrogen multiple-bond complexes, was described in a letter from a National Academy of Science member as a "paradigm in chemical reactivity."

Trudolyubov, a current postdoctoral fellow, was nominated by Bill Friedhorsky of NIS-2. Trudolyubov was nominated for his exciting scientific discoveries that have significantly enhanced the Lab's status in the scientific community and his exceptional dedication and scientific leadership in the field of astrophysics. His research during the past year is changing what astrophysicists thought they knew about X-ray emission from spiral



My Hang Huynh

galaxies like the Milky Way Galaxy, and it is having a significant impact on the understanding of these "normal" galaxies.

A committee of six technical staff members reviewed all nominations submitted and a final recommendation was made to Interim Laboratory Director Pete Nanos and Deputy Director for Science and Technology Bill Press, who made the final selections.

Review committee chairperson and Theoretical Chemistry and Molecular Physics (T-12) Group Leader Tony Redondo said, "It is very satisfying to see the outstanding postdoc talent that resides at the Laboratory as was reflected in all of the nominations. The



Sergey Trudolyubov

impact and quality of work that these individuals have accomplished is very impressive. This was the second time that this award was competed for, and we believe that it provides another opportunity to recognize the truly outstanding postdoc talent that exists at the Laboratory."

Huynh and Trudolyubov will receive a certificate and a monetary award at an upcoming banquet. The two award recipients also will have the opportunity to present their work during a colloquium that will take place this summer. Watch the online Daily Newsbulletin at <http://www.lanl.gov/newsbulletin> for time and place of the colloquium.

In Memoriam

George Voelz

George Voelz, former Los Alamos Health Division leader and one of the world's foremost authorities on the health effects of radiation, died Jan. 31, in Albuquerque.

Memorial services were held at the Holy Cross Lutheran Church in Albuquerque and at the Bethlehem Lutheran Church in Los Alamos.

Dr. Voelz was born Oct. 13, 1926, in Wittenberg, Wis. He served in the U.S. Navy during World War II and earned his bachelor of science and medical doctoral degrees from the University of Wisconsin, Madison.

Dr. Voelz came to Los Alamos Scientific Laboratory in July 1953 as a staff physician in Occupational Medicine within the former Health Division.

From 1957 to 1970, he served as medical director and health division leader at the Idaho Falls Operations Office of the Atomic Energy Commission.

Dr. Voelz returned to Los Alamos in 1970 as leader of the Health Division, a post he held until 1982. He retired from the Laboratory in December 1990 but remained active as a Laboratory associate and guest scientist.



February employee service anniversaries

35 years

Kenneth Johnson, PS-13
Alex Salazar, EES-DO
Paul Tallerico, SNS-02

30 years

David Barnes, HSR-4
C.N. Espinoza, MST-10
Russell McFadden, D-5
Richard Rivera, CCN-18

25 years

Graydon Anderson, C-PCS
Jacob Bartos III, MST-7
Kelly Blount Jr., ESA-OPS
Sue Chasen, HSR-DO
Frank Cverna, P-DO
James Early, DX-1
Kenneth Kroncke, NIS-5
Kenneth Martinez, NMT-15
Frances Mascarenas, ADA
Alice Naranjo, HSR-3
W. Mark Parsons, LANSCE-AHF
Chester Smith Jr., NMT-2
H. Vernon Smith, DX-6
Albert Torres, ESA-WMM
David T. Torres, DX-2
Lloyd Vigil, BUS-4
Michael Weber, NIS-10
Robert Williford, NIS-4

20 years

Lee Anderson, ESA-WSE
John Charles III, ESA-WMM
David Clark, P-22
Jerry Freer, NMT-5
Darlene Gutierrez, NMT-4
Janet Hirons, HR-SP
Steven Howe, LANSCE-DO
Norman Johnson, T-3
Kelley Keresey, D-4
David Korzekwa, MST-6
Verne Loose, D-4
Danny Martinez, ESA-AET
Petrita Montaño, BUS-6
Ronald Nemeč, MST-6
Robert Quicksilver, DX-3
Ruth Robichaud, NIS-3
Angela Scoggins, LANSCE-DO
Carol Sutcliffe, ESA-TSE
Terry Thompson, P-25
Jenny Vigil, BUS-7
Karen West, PM-PPC
Jose Yepa, EES-11

15 years

Renida Carter, ESA-WR
Robert Cantwell, IM-8
John Doub, LANSCE-5
Perry Farley, RRES-R
Barbara Hargis, HSR-DO

Grace Hollen, LANSCE-4
Mary Lee, X-5
Jesse Mendez, NMT-15
Socorro Mondragon, STB-DSTBP
Marydell Nochumson, CCN-8
Frank Pearce, NIS-6
Kristi Pigue, NMT-3
Vivian Romero, D-1
Douglas Volkman, FWO-UI

10 years

Kirt Anderson, PM-1
Michael Begnaud, EES-11
Chung Chieng Lai, EES-2
Eugene Darling, S-8
Jack Ellvinger, RRES-SWRC
Lynn Foster, NMT-4
Daniel James, BUS-DO
Phillip Jewett, B-5
Robert Keys III, RRES-MAQ
Robert Margevicius, NMT-11
Cristina Salazar-Langley, PS-DO
Avadh Saxena, T-11
Timothy Sloan, FWO-SWO
Alan Yaeger, FWO-SEM

5 years

Angelina Aragon, RRES-ECO
Joseph Boyet, DX-4
Donald Brown, MST-8
Darrell Butterworth, NMT-3
Mary Cionek, PM-PPC
Paul Contreras, NMT-16
Robin Cyr, CCN-18
James Fraser, FWO-FMU-76
Jaime Garcia, BUS-4
Shirley Grider, DIR
Zulma Hodges, BUS-2
Thomas Jachimowski, C-SIC
David Keith, HSR-12
James Kirkpatrick, AA-4
Larry Libersky, CCS-2
Doreen Lowery, SNS-DO
Brian Martinez, ESA-OPS
Harold Martinez, HSR-1
Andy Montoya, FWO-SEM
Connie Montoya, NMT-9
Louis Naranjo, RRES-ECO
Loretta Ortega, NMT-7
Jonathan Parker, CCN-12
Daniel Pond, D-11
Pamela Prelo, BUS-2
David Reass, EES-2
Gilbert Roybal, S-4
Dina Sassone, HSR-5
Donna Smith, NMT-15
Richard Sokoloff, FWO-FMU-77
Lara Telle, BUS-2
David J. Torres, T-3
Chris Trujillo, BUS-2
Oliver Trujillo, DX-1
Martin Tyler, IM-8

Nominations sought ...

continued from Page 4

There will be an award ceremony, at which time the winner will receive a certificate and \$500 cash award and will be invited to present a colloquium regarding the work described in the winning publication.

Nine copies of both the nomination letter and reprints of the article must be submitted to the coordinator of the prize, Mary Anne With, Postdoctoral Program Office, Mail Stop M701. If the article has not yet been published, submit nine preprints plus a copy of the statement of acceptance from the journal.

Questions about the competition should be addressed to Mary Anne With by calling 5-5306 or with@lanl.gov by e-mail.



This month in history ...

February

1887 — The tradition of groundhog weather-watching starts Feb. 2.

1923 — Leaded gasoline, gasoline mixed with Tetraethyl and called "ethyl gasoline" first goes on sale to the public.

1935 — Hans Bethe arrives in the United States to take up an assistant professorship at Cornell University.

1936 — The British Admiralty accepts Leo Szilard's offer to turn over his patents. *

1943 — The Los Alamos Ranch School closes. By that time, digging and trenching on the site already had begun, because J. Robert Oppenheimer was concerned that a delay in the start of construction, which permitted the final class to finish its curriculum for the year, would postpone completion of the design of the atomic bomb.

1943 — Construction begins at Oak Ridge on buildings for Y-12, the electromagnetic U-235 separation plant. *

1944 — The Los Alamos Governing Board reevaluates deuterium fusion research and determines that tritium would be necessary to make an explosive reaction. Priority of fusion bomb work is further downgraded. *

1945 — A meeting between J. Robert Oppenheimer, Gen. Leslie Groves, George Kistiakowsky, James Conant, Richard C. Tolman, Hans Beth and Charles Lauritsen is held to fix the design approach for the plutonium bomb. It is agreed that work will focus on the solid-core Christy gadget, use explosive lenses, a modulated initiator and electric detonators. The use of Composition B and Baratol for the lenses was also decided, as was the multiple lens configuration and detonator arrangement. However, none of these approaches or components had been proved yet. Solid core compression has not been demonstrated at this time. A schedule for completing research, development, engineering and testing is also established. *

1967 — J. Robert Oppenheimer, first director of the now Los Alamos National Laboratory, dies on Feb. 18.

1997 — The Laboratory is closed because of bad weather and road conditions.

1999 — NASA astronaut Donald R. Pettit speaks in the Physics Building Auditorium. He discusses "Some Technical Aspects of Space Flight." Pettit came to work at the Lab in 1984 as a staff scientist.

And this from the Feb. 21, 1957, Los Alamos Scientific Laboratory Bulletin:

Official vehicles assigned to groups working south of the Los Alamos Canyon Bridge are not to be driven or parked north of this bridge after the end of the work day. Vehicles normally driven from outlying sites after work are to be parked in the official parking areas such as those next to the Administration Building on the east and south, and the area near the South Mesa service station. Only vehicles assigned to groups still in TA-1 may be parked in official areas north of the bridge.

* Carey Sublette, "Chronology for the Origin of Atomic Weapons" from http://www.childrenofthemanhattanproject.org/MP_Misc/atomic_timeline_1.htm



Music from the heart

by Lecole Trujillo



Retired Laboratory employee Floyd Archuleta plays music from his heart. Recently, he fulfilled his life-long dream of recording his own CD.

He grew up knowing and loving music because he was surrounded by it. His father, uncles and cousins have all been associated with music. His father, aunts and uncles formed a band named Banda Archuleta. "They were 'the' band in Northern New Mexico for a long time," according to Archuleta. He has been playing guitar and singing since he was 12 years old, and in high school he formed a band.

While working at the Lab, Archuleta met Andrew Chavez of the Community Relations Office (CRO), who also is from a musically inclined family, and they began to jam together. Chavez' brother, Steve, has a recording studio in Española, and they began a project

to record a CD and eventually completed it. "I am thankful for the mentoring and assistance from Andrew and Steve. It wouldn't have been possible to make this CD without them," Archuleta said. "With this kind of talent and support, the first hurdles of the project already were behind me."

Initially the trio made 20 copies of the CD for family and friends, but everyone enjoyed it and encouraged Archuleta to distribute the CD to a larger market. In August, he made his CD available to the public; it was so well-received that he was nominated for four Hispano Music Awards in Albuquerque. It is now distributed throughout the region, and as a result, Archuleta has booked performances throughout New Mexico and southern Colorado. He also is in the process of arranging a performance contract in Las Vegas.

Archuleta said, "Recording this CD and writing the title song, "Mis Canciones," is my contribution to Northern New Mexico and its music." His song expresses his love for music and his excitement of fulfilling his childhood dream. He copyrighted the song and registered it with the Library of Congress.

Archuleta is a 20-year member of the Española city council and is the only member ever to be elected to five-consecutive four-year terms. He has served on national committees such as the Energy Communities Alliance, the Small Cities and Economic Development councils and was elected president of the New Mexico Municipal League by city officials from throughout New Mexico. The Rio Grande Sun newspaper readers have twice voted him Española's favorite city councilor.

Archuleta was a Laboratory employee for 39 years, having served five of those years as Protocol's group leader. He retired from the CRO as community outreach manager.

The first day of retirement, Eagle Research Group, a contractor for the Department of Labor and the Department of Energy, offered Archuleta the director's position of the Energy Employees Occupational Illness Compensation Program. Archuleta took the Eagle Research Group up on their offer and thus ended a very short retirement period. In addition, during retirement he also founded a public relations company called Amigo Promotions.

Archuleta says he has many projects keeping him busy and content during his post-Laboratory career.

For more information, contact Archuleta at floyd@espanola.com by e-mail or visit his Web site at <http://www.floydarchuleta.com> online.



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